

# Cristiano Palego

## List of Publications by Year in descending order

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33  
papers

489  
citations

933264

10  
h-index

940416

16  
g-index

33  
all docs

33  
docs citations

33  
times ranked

447  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Electrical Detection of Individual Biological Cells. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1905-1911.	2.9	62
2	Anelastic Stress Relaxation in Gold Films and Its Impact on Restoring Forces in MEMS Devices. Journal of Microelectromechanical Systems, 2009, 18, 570-576.	1.7	53
3	Robustness of RF MEMS Capacitive Switches With Molybdenum Membranes. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3262-3269.	2.9	49
4	Assessment of Cytoplasm Conductivity by Nanosecond Pulsed Electric Fields. IEEE Transactions on Biomedical Engineering, 2015, 62, 1595-1603.	2.5	49
5	Impact of Humidity on Dielectric Charging in RF MEMS Capacitive Switches. IEEE Microwave and Wireless Components Letters, 2009, 19, 299-301.	2.0	46
6	Differentiation of live and heat-killed E. coli by microwave impedance spectroscopy. Sensors and Actuators B: Chemical, 2018, 255, 1614-1622.	4.0	41
7	A Two-Pole Lumped-Element Programmable Filter With MEMS Pseudodigital Capacitor Banks. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 729-735.	2.9	32
8	Compact RF Model for Transient Characteristics of MEMS Capacitive Switches. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 237-242.	2.9	25
9	Super-Resolution Imaging by Dielectric Superlenses: TiO <sub>2</sub> Metamaterial Superlens versus BaTiO <sub>3</sub> Superlens. Photonics, 2021, 8, 222.	0.9	19
10	Intelligent Bipolar Control of MEMS Capacitive Switches. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 464-471.	2.9	14
11	Effect of packaging on dielectric charging in RF MEMS capacitive switches. , 2009, , .		13
12	High-voltage 10Âns delayed paired or bipolar pulses for in vitro bioelectric experiments. Bioelectrochemistry, 2021, 137, 107648.	2.4	11
13	<i>C</i>-Band Telemetry of Insect Pollinators Using a Miniature Transmitter and a Self-Piloted Drone. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 938-946.	2.9	9
14	Dielectric Charging in Electrostatically Actuated MEMS Ohmic Switches. IEEE Transactions on Device and Materials Reliability, 2008, 8, 642-646.	1.5	8
15	Honey-Bee Localization Using an Energy Harvesting Device and Power Based Angle of Arrival Estimation. , 2018, , .		7
16	Microwave intermodulation technique for monitoring the mechanical stress in RF MEMS capacitive switches. , 2008, , .		6
17	BiCMOS Integrated Microfluidic Packaging by Wafer Bonding for Lab-on-Chip Applications. , 2017, , .		5
18	Inspiring a Self-Reliant Learning Culture while Brewing the Next Silicon Valley in North Wales. Education Sciences, 2020, 10, 64.	1.4	5

#	ARTICLE	IF	CITATIONS
19	Novel Ka-band phase shifters using MEMS capacitive switches. , 2010, , .		4
20	Compact RF large-signal model for MEMS capacitive switches. , 2010, , .		4
21	Electro-thermal analysis of RF MEM capacitive switches for high-power applications. , 2010, , .		4
22	Effect of surface conduction on dielectric charging in RF MEMS capacitive switches. , 2010, , .		4
23	Effect of the substrate on RF power-handling capability of micro-electromechanical capacitive switches. Solid-State Electronics, 2011, 65-66, 219-225.	0.8	4
24	Fast, compact and label-free electrical detection of live and dead single cells. , 2013, , .		4
25	Intermodulation distortion of actuated MEMS capacitive switches. , 2013, , .		3
26	Long-term RF Burn-in Effects on Dielectric Charging of MEMS Capacitive Switches. IEEE Transactions on Device and Materials Reliability, 2013, 13, 310-315.	1.5	3
27	Cell detection and discrimination by a microfluidic-integrated broadband microchamber. , 2014, , .		2
28	A Dual-Band MEMS Reconfigurable Filter for a Multi-Standard Radio Front-End. , 2008, , .		1
29	RF MEMS control of planar microchamber for adaptive biosensing applications. , 2014, , .		1
30	Microsystem technology for adaptive intracellular sensing and manipulation. , 2015, , .		1
31	Reproducible sensing of individual biological cells by broadband microwave signals. , 2014, , .		0
32	A Printed Circuit Board Continuous Wave Doppler Radar for Machine Learning-Enhanced Biometrics. , 2021, , .		0
33	Insect Collision Detection Using Machine Learning with Correlation to Climatic Conditions. , 2022, , .		0